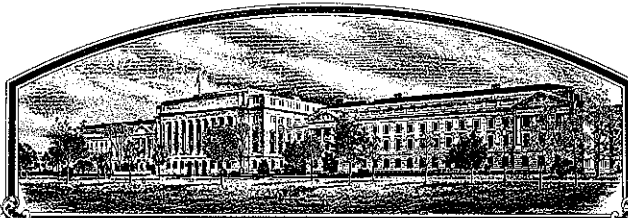


No.



9300011

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Terral-Norris Seed Co., Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (T. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Terral 877'

In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington, D.C.  
this 31st day of August in  
the year of our Lord one thousand nine  
hundred and ninety-four.

Attest

*Kenneth H. Evans*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Mike Eszy*  
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

|   |                            |  |   |
|---|----------------------------|--|---|
| 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)   |                            | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO. | 3. VARIETY NAME   |
| Terral-Norris Seed Co., Inc.  |                            | Terral X877                                  | Terral 877  |
| 4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)   |                            | 5. PHONE (include area code)                 | <b>FOR OFFICIAL USE ONLY</b><br>PVPO NUMBER<br>9300011<br>FILING<br>Date<br>October 26, 1992<br>Time<br>3:52 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.<br>FILING AND EXAMINATION FEE:<br>\$ 2150.00<br>Date<br>October 23, 1992<br>CERTIFICATE FEE:<br>\$ 250.00<br>Date<br>August 1, 1994 |
| 604 Ninth Street<br>Lake Providence, LA 71254   |                            | (318) 559-2840                               |   |
| 6. GENUS AND SPECIES NAME   | 7. FAMILY NAME (Botanical) |  |   |
| Triticum aestivum   | Gramineae                  |  |   |
| 8. CROP KIND NAME (Common Name)   |                            | 9. DATE OF DETERMINATION                     |   |
| Wheat   |                            | 1985   |   |
| 10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) |                            |  |   |
| Corporation   |                            |  |   |
| 11. IF INCORPORATED, GIVE STATE OF INCORPORATION  |                            | 12. DATE OF INCORPORATION                    |   |
| Louisiana   |                            | 1953   |   |
| 13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS      |                            |  |   |
| Thomas F. Terral<br>P. O. Box 826<br>Lake Providence, LA 71254  |                            |  |   |
| PHONE (include area code): (318) 559-2840   |                            |  |   |

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

- a. ☒ Exhibit A, Origin and Breeding History of the Variety.  
 b. ☒ Exhibit B, Novelty Statement.  
 c. ☒ Exhibit C, Objective Description of Variety.  
 d. ☒ Exhibit D, Additional Description of Variety.  
 e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.  
 f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office 10/20/92  
 g. ☒ Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act.)

☐ YES (If "YES," answer items 16 and 17 below) ☒ NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☐ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ YES (If "YES," through ☐ Plant Variety Protection Act. ☐ Patent Act. Give date: \_\_\_\_\_.)  
☒ NO

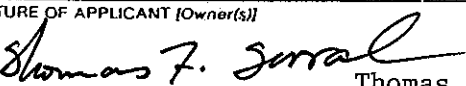
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☐ YES (If "YES," give names of countries and dates)  
☒ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

|   |                   |          |
|---|-------------------|----------|
| SIGNATURE OF APPLICANT [Owner(s)]   | CAPACITY OR TITLE | DATE     |
| <br>Thomas F. Terral | President         | 10/20/92 |
| SIGNATURE OF APPLICANT [Owner(s)]   | CAPACITY OR TITLE | DATE     |
|   |                   |          |

## 14A. EXHIBIT A

## ORIGIN AND BREEDING HISTORY OF TERRAL 877

PEDIGREE: Coker 68-15\*4/Transec W. form/Coker 762

| YEAR        | LOCATION | ACTIVITY   | IDENTITY                     |
|-------------|----------|--|------------------------------|
| Spring 1979 | HSC      | Cross made between 79CP8 & Exp. Line 76-22           | X375                         |
| Summer 1979 | HSC      | Grew and bulked F <sub>1</sub> greenhouse            |                              |
| 1979-80     | HSC      | Bulked seed from F <sub>2</sub> plants               | 80F <sub>1</sub> -71 GH bulk |
| 1980-81     | HSC      | Selected heads from space plants                     | 81 DSP 562                   |
| 1981-82     | HSC      | Grew as head rows                                    | 82 HR 17140                  |
| 1982-83     | HSC      | Yield tested & re-selected heads                     | 83 C 202                     |
| 1983-84     | HSC      | Grew as head rows                                    | 82 HR 3473                   |
| 1984-85     | HSC      | Yield tested   | 85 B 42                      |
| 1985-86     | HSC      | Main (advanced) wheat yield trial and increase block | Ck 86-18                     |
| 1986-87     | SE & MS  | Advanced Yield Trials                                | Ck 86-18                     |
| 1987-88     | SE & MS  | Commercial Elite Test                                | Ck 86-18                     |
| 1988-89     | SE & MS  | Commercial Elite Test & large increase block         | Ck 86-18                     |
| Fall 1989   |          | Transferred to Terral-Norris                         | Terral X-877                 |

## NOTE LOCATION CODES:

HSC = Hartsville, SC

SE = Southeast

MS = Mid-South

**EXHIBIT B****NOVELTY STATEMENT**

**To our knowledge, Terral 877 most resembles Florida 302 and McNair 1003.**

**Differences include, but are not necessarily restricted to, the following:**

- 1. Terral 877 has heads that tend to be awn tipped to awnletted and medium in length. Where as, Florida 302 is awned and has supernumerary spikelets while McNair 1003 has long lax heads.**



**Terral-Norris**

**SEED COMPANY, INC.**

Telephone (318) 559-2840 · Post Office Box 826 · Lake Providence, LA 71254

9300011

John C. Terral  
Thomas F. Terral

December 9, 1992

Alan A. Atchley, Plant Variety Examiner  
Plant Variety Protection Office  
NAL Building, Room 500  
10301 Baltimore Blvd.  
Beltsville, MD 20705-2351

RE: PV Application No. 9200035, Wheat variety "Terral 877"

Dear Mr. Atchley:

I discussed with the breeder, the information you requested in your November 30th letter.

In Exhibit A submitted (Origin and Breeding history), I should have stated that in 1985 the variety, Terral 877, appeared to be stable and uniform. Terral 877 was observed for the next three generations and was stable and uniform for all traits observed.

The following specific traits were considered when the breeding of Terral 877 was being done:

1. Yield
2. Low vernalization
3. Leaf & stem rust resistance
4. Mildew resistance
5. Test weight
6. Septoria nodorum resistance

The breeder also observed the traits that make up most of the objective description of the variety. Until a breeding line in 1979-80 was selected, these traits were not as important as the earlier traits mentioned. During the period of 1980-84, the variety was reselected for the Phenotypic traits to bring it to uniformity as well as maintain the level of yield and disease resistance that had been achieved during breeding.

I hope this answers your questions and assists you in your further examination of Terral 877.

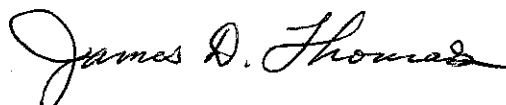
4

9300611

I noticed an error in our Application in Exhibit C, Section 18, Powdery mildew:  
I should have a 2 in the box for Mid-South races. Terral 877 is resistant to the Mid-South races  
and susceptible to Southeast races.

Sincerely,

**Terral-Norris Seed Co., Inc.**

A handwritten signature in cursive script that reads "James D. Thomas".

James D. Thomas  
Director of Operations

JDT/ds

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
COMMODITIES SCIENTIFIC SUPPORT DIVISION  
BELTSVILLE, MARYLAND 20705

EXHIBIT C  
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Terral-Norris Seed Co., Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

604 Ninth Street  
Lake Providence, LA 71254

FOR OFFICIAL USE ONLY

PVPO NUMBER

9300011

VARIETY NAME OR TEMPORARY  
DESIGNATION

Terral 877

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g.,  or ) when number is either 99 or less or 9 or less.

## 1. KIND:

1 = COMMON    2 = DURUM    3 = EMMER    4 = SPELT    5 = POLISH    6 = POULARD    7 = CLUB

## 2. TYPE:

1 = SPRING    2 = WINTER    3 = OTHER (Specify) \_\_\_\_\_  1 = SOFT    3 = OTHER (Specify) \_\_\_\_\_  
2 = HARD

1 = WHITE    2 = RED    3 = OTHER (Specify) \_\_\_\_\_

## 3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

FIRST FLOWERING     LAST FLOWERING

## 4. MATURITY (50% Flowering):

NO. OF DAYS EARLIER THAN .....  1 = ARTHUR    2 = SCOUT    3 = CHRIS    7 Coker 916

NO. OF DAYS LATER THAN .....  4 = LEMHI    5 = NUGAINES    6 = LEEDS    8 Florida 302

## 5. PLANT HEIGHT (From soil level to top of head):

CM. HIGH

CM. TALLER THAN .....  7 Coker 916

CM. <sup>Taller</sup> SHORTER THAN .....  1 = ARTHUR    2 = SCOUT    3 = CHRIS    8 Florida 302  
4 = LEMHI    5 = NUGAINES    6 = LEEDS

## 6. PLANT COLOR AT BOOTING (See reverse):

1 = YELLOW GREEN    2 = GREEN    3 = BLUE GREEN

## 7. ANTHUR COLOR:

1 = YELLOW    2 = PURPLE

## 8. STEM:

Anthocyanin: 1 = ABSENT    2 = PRESENT

Waxy bloom: 1 = ABSENT    2 = PRESENT

Hairiness of last internode of rachis: 1 = ABSENT    2 = PRESENT

Internodes: 1 = HOLLOW    2 = SOLID

NO. OF NODES (Originating from node above ground)

CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

## 9. AURICLES:

Anthocyanin: 1 = ABSENT    2 = PRESENT

Hairiness: 1 = ABSENT    2 = PRESENT

## 10. LEAF:

Flag leaf at booting stage: 1 = ERECT    2 = RECURVED  
3 = OTHER (Specify): \_\_\_\_\_

Flag leaf: 1 = NOT TWISTED    2 = TWISTED

Hairs of first leaf sheath: 1 = ABSENT    2 = PRESENT

Waxy bloom of flag leaf sheath: 1 = ABSENT    2 = PRESENT

MM. LEAF WIDTH (First leaf below flag leaf)

CM. LEAF LENGTH (First leaf below flag leaf):

## 11. HEAD:

☒ 3 Density: 1 = LAX 2 = DENSE 3 = Mid-Dense ☒ 2 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) \_\_\_\_\_

☒ 2 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

☒ 7 Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify): Tan

☒ 0 ☒ 8 CM. LENGTH ☒ 1 ☒ 0 MM. WIDTH

## 12. GLUMES AT MATURITY:

☒ 2 Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.) ☒ 2 Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)

☒ 2 Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE

☒ 1 Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

## 13. COLEOPTILE COLOR:

☒ 1 1 = WHITE 2 = RED 3 = PURPLE

## 14. SEEDLING ANTHOCYANIN:

☒ 1 1 = ABSENT 2 = PRESENT

## 15. JUVENILE PLANT GROWTH HABIT:

☒ 2 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

## 16. SEED:

☒ 3 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL ☒ 1 Check: 1 = ROUNDED 2 = ANGULAR

☒ 1 Brush: 1 = SHORT 2 = MEDIUM 3 = LONG ☒ 1 Brush: 1 = NOT COLLARED 2 = COLLARED

☐ Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

☒ 5 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) Light to medium brown

☒ 0 ☒ 7 MM. LENGTH ☒ 0 ☒ 3 MM. WIDTH ☒ 3 ☒ 2 GM. PER 1000 SEEDS

## 17. SEED CREASE:

☒ 2 Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' 2 = 80% OR LESS OF KERNEL 'CHRIS' medium 3 = NEARLY AS WIDE AS KERNEL 'LEMHI' ☒ 2 Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' 2 = 35% OR LESS OF KERNEL 'CHRIS' medium 3 = 50% OR LESS OF KERNEL 'LEMHI'

## 18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☒ 1 STEM RUST (Races) ☒ 2 LEAF RUST (Races) Mid-South field races ☒ 2 STRIPE RUST (Races) Mid-South field races ☒ 0 LOOSE SMUT

☒ 2 Susceptible to Southern ☒ 0 BUNT ☐ OTHER (Specify) \_\_\_\_\_

☒ 2 POWDERY MILDEW races Mid-South races

## 19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☒ 0 SAWFLY ☒ 0 APHID (Bydv.) ☒ 0 GREEN BUG ☒ 0 CEREAL LEAF BEETLE

☐ OTHER (Specify) \_\_\_\_\_ HESSIAN FLY RACES: ☐ GP ☐ A ☐ B ☐ C ☐ D ☒ 1 E ☐ F ☐ G

## 20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

| CHARACTER       | NAME OF VARIETY | CHARACTER             | NAME OF VARIETY |
|-----------------|-----------------|-----------------------|-----------------|
| Plant tillering | Florida 302     | Seed size             | Coker 983       |
| Leaf size       | Florida 302     | Seed shape            | Coker 916       |
| Leaf color      | Coker 916       | Coleoptile elongation | not determined  |
| Leaf carriage   | Coker 916       | Seedling pigmentation | not determined  |

## INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (a) L.W. Briggie and L. P. Reisz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)



## 14D. EXHIBIT D

## ADDITIONAL DESCRIPTION OF TERRAL 877

Terral 877 is a common soft red winter wheat, Triticum aestivum L.

Terral 877 is medium maturity, medium height, medium to high test weight, and disease resistant.

Seed color is a medium brown; coleoptile color is green; plant color is blue/blue green; and heads at maturity are tan.

Winter hardiness is similar to Coker 9227 and Terral 877 vernalizes in a relatively short time (about 3 to 4 weeks).

Juvenile plant growth is semi-prostrate; leaves are relatively broad; heads tend to be awn tipped to awnletted and are medium in length. Terral 877 is resistant to races of leaf rust and stripe rust present in the Mid-South in 1989. It is moderately resistant to stem rust, the soilborne virus complex found in the Mid-South, and to Septoria nodorum. It is susceptible to the race of powdery mildew found in the Southeast but resistant to the race present in the Mid-South.

**14E EXHIBIT E****STATEMENT OF APPLICANTS OWNERSHIP**

**Terral-Norris Seed Company, Inc. is the owner of Terral 877 through purchase of the variety.**